

What is claimed is:

1. A method for decomposing a nonmetallic honeycomb panel by processing crushed pieces of the nonmetallic honeycomb panel together with a process water under a high temperature and high pressure condition for a predetermined length of time to decompose said nonmetallic honeycomb panel into components, said method comprising:

a first step of performing treatment for a predetermined length of time with said process water brought to a subcritical range, said process water being either water or alkali-added water; and

a second step of performing treatment for a predetermined length of time with said process water brought to a supercritical range;

wherein an aromatic polyamide is hydrolyzed and separated during said first step, and dehalogenation is carried out during said second step.

2. The method for decomposing a nonmetallic honeycomb panel according to claim 1, wherein when said second step is completed, said nonmetallic honeycomb panel is separated into a decomposition product and a glass fiber.

3. A method for recycling a nonmetallic honeycomb panel, said method comprising:

a step of decomposing said nonmetallic honeycomb panel into

components by crushing said nonmetallic honeycomb panel and treating said crushed panel together with a process water under a high temperature and high pressure condition for a predetermined length of time; and

a step of separating a glass fiber from a decomposition product obtained by said decomposing step, wherein said glass fiber is recycled, and a residue remaining after separating said glass fiber from said decomposition product is used as fuel.

4. The method for recycling a nonmetallic honeycomb panel according to claim 3, wherein said decomposing step comprises a first step of performing treatment for a predetermined length of time with said process water brought to a subcritical range, and a second step of performing treatment for a predetermined length of time with said process water brought to a supercritical range;

wherein an aromatic polyamide is hydrolyzed and separated during said first step, and dehalogenation is carried out during said second step; and when said second step is completed, said nonmetallic honeycomb panel is separated into said decomposition product and said glass fiber.